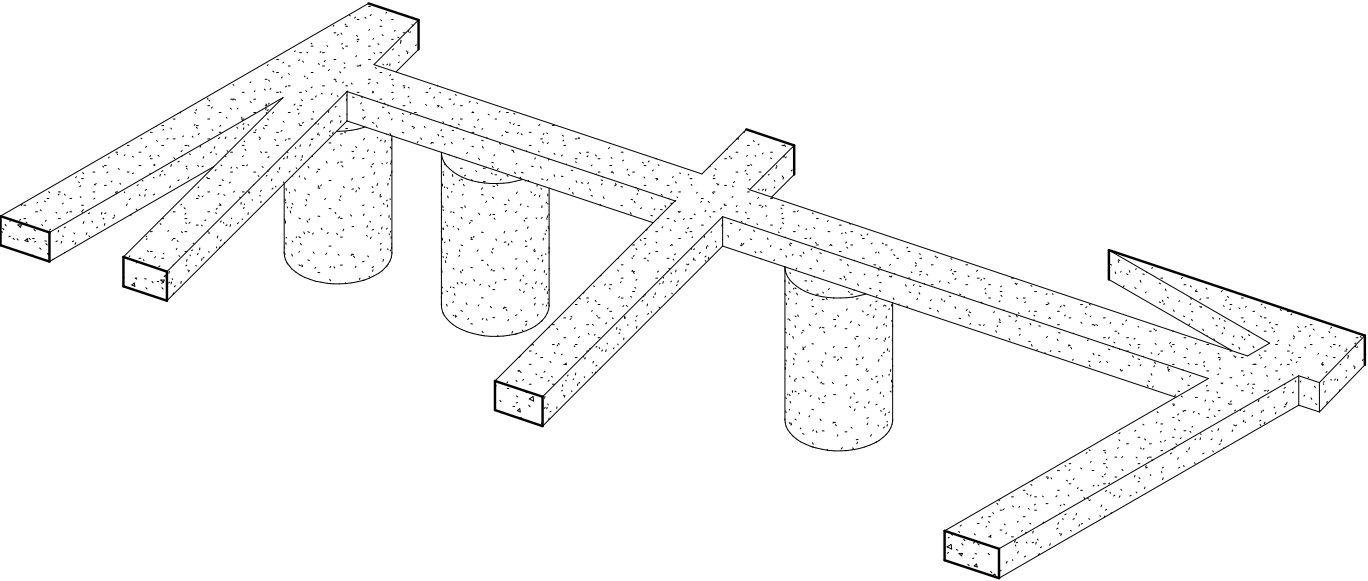
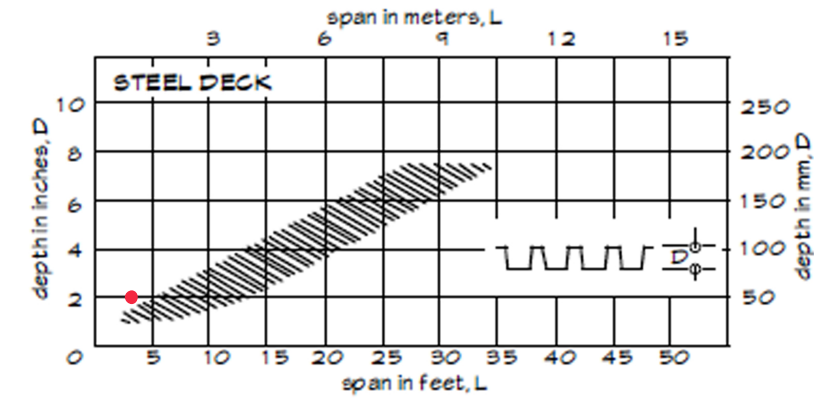


STRUCTURAL FOUNDATION:

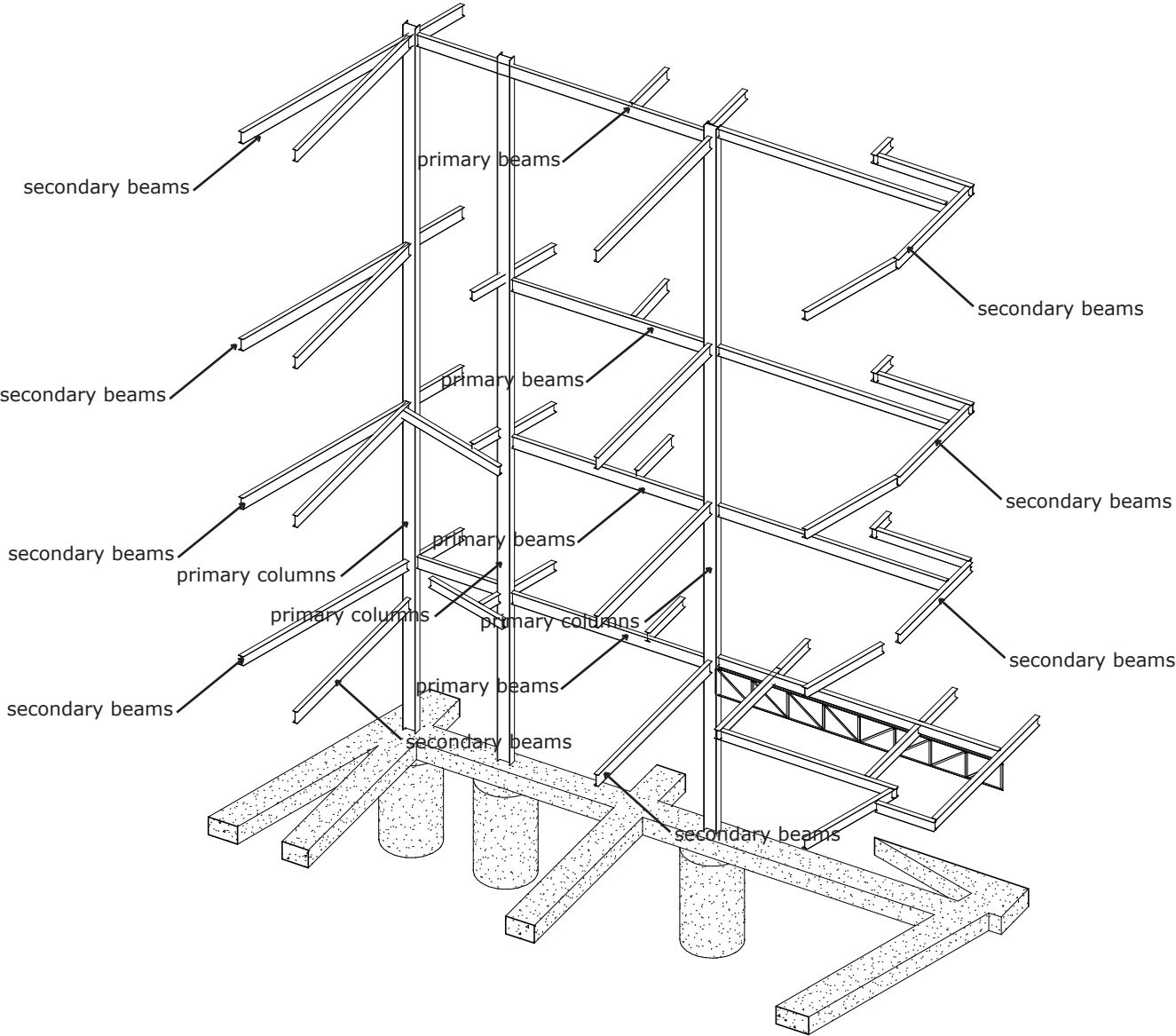
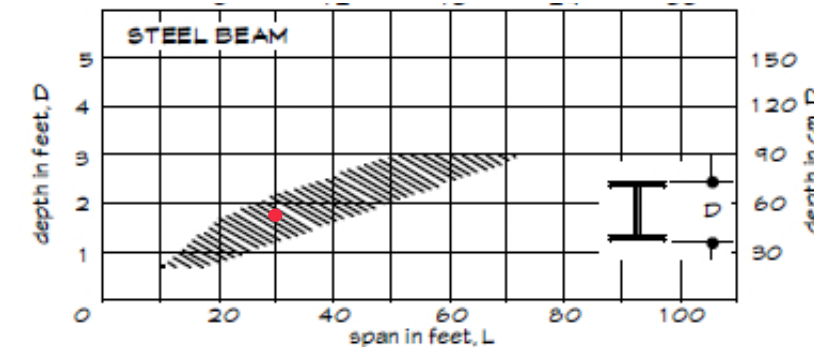
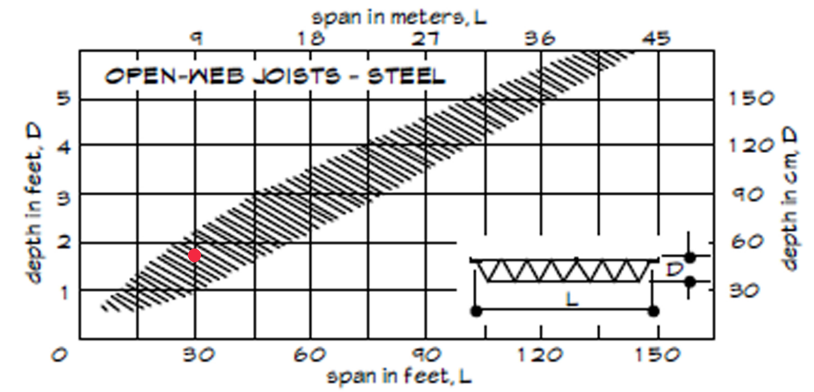
The foundation is typical for foundations of Houston, Texas. At the points where primary structural columns meet the foundation, a pylon of 36" plus is placed to distribute the load into the soil. Since there is no bedrock, the pylon provides the equal distribution back to the structure through friction of the surface area and displacement of the load at the footing. Here, a section of the model is used to describe the typical structural bay of the project. Three pylons are shown where 3 primary columns meet the foundation. At that meeting, a system of grade beams are poured to keep the pylons and columns from moving.



STRUCTURAL FRAME:

The primary and secondary members of the structural frame work at two framing grids. The 15 degree grid is the primary structural grid and where the building encounters the street or the the neighboring building, the grid becomes orthaganal about the site. There are 5 levels at this particular section at the theater. A transfer case is utilized to avoid columns in certain sections of the theater. Secondary beams create openings at fire stairs and as the frame.

the primary columns are W16 x 67
the primary beams are W16 x 26
the secondary beams are W12 x 26
the k joists @ lower levels 18K7
the k joists @ roof 12K1
the structural floor 3" concrete and 2 inch mtl deck



Project Name:
3500 STUDIO PROJECT

City, Country
Houston, Texas USA

Latitude/Longitude/Elevation
29°45'46"N 95°22'59"W
43ft

DAVID NORTHCUTT BROWN
0398907

ARCH 3427
TECHNOLOGY 3

DOSSIER ONE